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Statistical Reports
for the
Fiscal YEARS 1965-1974

INSTITUTE OF GOVERNMENTAL STUDIES
SEP 25 1975
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Department of Water and Power
CITY OF LOS ANGELES, CALIFORNIA

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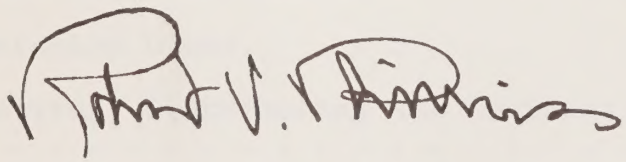
FOREWORD

This Supplemental Report of the Los Angeles Department of Water and Power has been printed to furnish statistical data which were not included in the Annual Report for the fiscal year ended June 30, 1974. We have included also ten-year tables which will provide a convenient comparative reference.



ROBERT V. PHILLIPS
General Manager and Chief Engineer

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WATER SYSTEM

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HYDROLOGIC DATA - LOS ANGELES AQUEDUCT

CITY OF LOS ANGELES - DEPARTMENT OF WATER AND POWER - WATER SYSTEM

For Years Ending June 30

ITEM	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
RAINFALL (inches)										
Cain Ranch (Mono Basin)	12.34	12.94	8.70	8.25	8.51	17.91	7.46	15.22	11.69	10.70
Long Valley Reservoir	10.58	13.36	6.40	8.95	5.53	25.20	4.99	14.03	9.30	6.49
Bishop (U.S.W.B.)	6.32	7.24	2.54	3.39	2.51	18.02	1.89	8.97	5.47	2.16
Independence	4.91	7.32	1.72	4.20	3.32	16.12	2.19	12.76	3.67	3.39
Haiwee Reservoir	7.82	7.66	3.43	5.34	4.12	13.49	6.68	9.25	6.69	5.22
Fairmont Reservoir	12.01	18.13	9.46	15.00	8.16	32.92	14.02	22.54	23.47	10.59
Los Angeles (U.S.W.B.)	14.92	21.26	7.17	12.12	7.77	27.47	16.58	22.00	20.44	13.69
MEAN ANNUAL FLOW (cfs)										
At East Portal (Mono Basin)	185.9	146.7	163.0	148.4	93.1	69.5	76.7	85.2	117.8	139.3
From Long Valley	395.3	289.5	402.1	388.0	335.3	394.4	309.9	326.1	286.9	316.3
Out of Haiwee	648.8	650.1	675.1	680.5	498.0	495.3	498.3	464.9	468.2	466.9
Into City	636.7	633.6	646.3	627.5	491.8	479.3	468.2	442.9	449.8	450.6
AQUEDUCT RESERVOIR STORAGE (Ac. ft. on July 1)										
Grant Lake	36914	41528	27566	38431	43427	33073	36914	48954	44923	43003
Long Valley	161698	157359	105296	134103	179793	140718	157838	138050	154508	133669
Pleasant Valley	3261	2919	2929	3083	3325	3955	2858	3815	3434	3188
Tinemaha	13664	8039	12778	9804	13847	16600	115	1652	1169	1332
Haiwee	41741	37955	42253	50584	52636	41508	52528	43215	44222	35625
Fairmont	5237	5550	5037	5290	3485	5117	5263	5237	4010	5263
Bouquet	30027	34335	35198	34030	21572	32586	31157	31694	33125	33302
Dry Canyon	0	0	0	0	0	0	0	0	0	477
Total	292542	287685	231057	275325	318085	273557	286674	272617	285391	255859

WATER SUPPLY & CONSUMPTION FOR YEAR ENDING JUNE 30

Average Flow in Cubic Feet Per Second

Item	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
SUPPLY										
Local Wells:										
Upper Basin Los Angeles River	85.5	85.2	81.5	79.9	91.1	87.6	144.1	128.6	156.8	150.9
Central Basin	16.8	20.2	17.6	19.1	21.6	20.7	20.0	15.0	14.8	15.5
West Coast Basin	3.4	4.7	4.3	3.0	2.8	2.6	2.1	1.3	2.3	2.5
Subtotal Local Wells	105.7	110.1	103.4	102.0	115.5	110.9	166.2	144.9	173.9	168.9
Los Angeles Aqueduct	636.7	633.6	646.3	627.4	491.8	479.5	468.2	442.9	449.8	450.6
Metropolitan Water District	35.2	45.3	82.4	72.1	203.0	162.6	130.4	133.5	115.0	110.8
Gross Supply	777.6	789.0	832.1	801.5	810.5	753.0	764.8	721.3	738.7	730.3
Loss:										
Release for groundwater storage	0.0	0.4	0	2.8	2.0	5.2	4.7	6.8	6.9	10.6
To (or from) local surface storage	(2.6)	(2.3)	(1.0)	(7.5)	(10.5)	(6.3)	(1.0)	(3.8)	2.4	0.1
Storage Diversions	2.6	1.9	1.0	4.7	8.5	1.1	3.7	3.0	9.3	10.7
Net Supply	780.2	790.9	833.1	806.2	818.8	754.1	761.1	718.3	729.4	719.6
DISTRIBUTION										
Producing Revenue										
Residential	361.6	365.0	397.5	384.5	387.3	360.5	365.9	348.3	358.6	360.3
Commercial	299.1	298.5	294.1	288.7	288.3	276.2	266.4	251.7	245.0	235.6
Industrial	3.6	3.7	5.3	5.6	6.8	6.9	7.3	7.8	5.2	5.2
Combined irrigation and residential	1.5	1.5	1.6	1.4	1.8	1.6	1.8	1.9	1.9	2.0
Intermittent Irrigation	5.0	5.6	7.1	6.9	8.0	7.6	10.3	9.3	12.7	14.9
*Power System	6.0	7.9	7.0	6.1	6.4	7.4	6.6	7.6	7.3	7.1
*Other L.A. City Departments	30.1	29.7	32.8	30.1	30.3	27.2	28.0	25.9	25.0	25.8
*Other Governmental	21.5	21.9	24.3	23.7	23.3	22.3	22.2	20.5	21.1	19.7
Other Water Utilities	0.0	0.2	1.0	1.1	-	-	-	-	-	-
Subtotal producing revenue	728.4	734.0	770.7	748.1	752.2	709.7	708.5	673.0	676.8	670.6
Nonrevenue										
Purpose of Enterprise	0.8	0.9	1.0	1.0	1.0	0.8	0.9	0.8	0.8	0.7
Net reservoir evaporation loss	3.0	2.9	4.2	4.6	6.6	5.6	8.6	6.6	6.9	7.4
**Others	48.0	53.1	57.2	52.5	59.0	38.0	43.1	37.9	44.9	40.9
Subtotal nonrevenue	51.8	56.9	62.4	58.1	66.6	44.4	52.6	45.3	52.6	49.0
Total Distribution	780.2	790.9	833.1	806.2	818.8	754.1	761.1	718.3	729.4	719.6
AVERAGE POPULATION SERVED (Millions)***	2.836	2.870	2.858	2.862	2.975	2.965	2.932	2.817	2.772	2.715
GALLONS PER CAPITA PER DAY										
Net Demand	178	178	188	182	178	164	168	165	170	171
Excluding Intermittent Irrigation	177	177	187	180	176	163	166	163	167	168

NOTES: *These three items total to the quantities shown as "Governmental" in statistics relating to water sales.
**Meter discrepancies, reservoir seepage, main leaks and other minor uses and losses.
***Average population served 1971 through 1973 adjusted to conform with 1970 census data, 1974 adjusted to conform with Los Angeles County Regional Planning Commission Data.

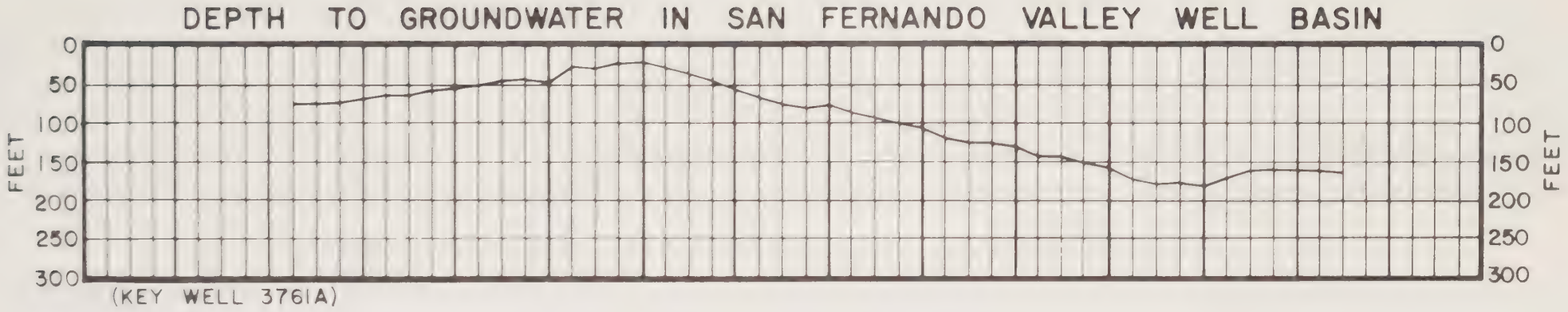
LOS ANGELES WATER MAINS AND SERVICES

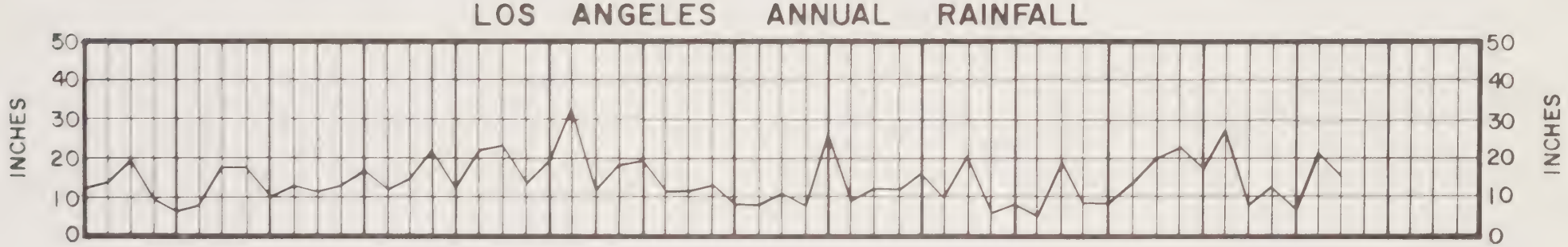
City of Los Angeles – Department of Water and Power – Water System

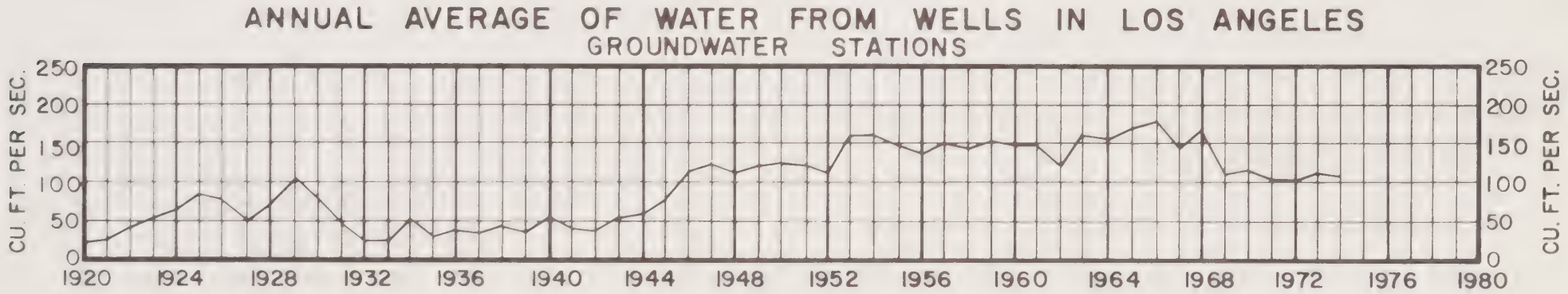
	1974	1973**	1972**	1971**	Inventory 1970	1969	1968	1967	1966	1965
Feet of Pipe by Size on June 30										
MAINS IN SYSTEM* (Diam.-inches)										
4	4,594,072	4,661,605	4,751,549	4,861,302	4,925,159	4,911,611	5,046,410	5,020,875	5,151,203	5,236,069
6	15,608,124	15,564,186	15,504,899	15,442,008	15,330,387	15,221,252	15,145,961	15,046,828	14,970,004	14,813,947
8	8,551,460	8,484,312	8,386,328	8,313,095	8,198,426	8,147,066	8,050,621	7,944,893	7,808,605	7,588,873
12	3,764,864	3,731,932	3,728,879	3,710,468	3,684,622	3,631,627	3,597,404	3,553,916	3,511,774	3,446,523
16	802,596	801,752	797,670	796,901	790,336	789,083	781,932	780,907	763,544	753,973
20	407,441	406,363	394,636	400,178	396,638	366,886	353,274	347,123	338,965	330,405
24	560,834	559,142	554,206	572,075	568,422	543,862	540,727	537,917	527,808	527,210
30	318,258	318,231	314,531	334,645	334,093	330,728	318,684	318,666	325,028	325,062
36	468,674	464,041	463,571	451,521	451,611	441,069	440,169	440,081	440,020	440,062
48	212,514	212,468	212,891	216,295	216,310	217,266	216,819	216,793	212,197	208,156
60	380,672	380,637	379,828	371,862	371,862	374,504	349,058	341,260	335,001	334,887
78	225,283	225,298	225,254	224,771	224,242	226,801	226,801	226,801	226,808	226,646
99	5,925	5,871	5,871							
120	1,838									
TOTAL FEET	35,902,555	35,815,838	35,720,113	35,695,121	35,492,108	35,201,755	35,067,860	34,776,060	34,610,957	34,231,813
TOTAL MILES	6,799.7	6,783.3	6,765.2	6,760.4	6,722.0	6,667.0	6,641.6	6,586.4	6,555.1	6,483.3
Kind of Pipe in Miles and Percent of Total on June 30										
NON-METALLIC-miles	573.5	568.6	559.2	543.4	529.1	509.6	496.3	469.4	449.3	434.9
%	8.4%	8.4%	8.3%	8.1%	7.9%	7.6%	7.5%	7.1%	6.9%	6.7%
STEEL -miles	984.4	980.2	957.3	962.5	944.1	912.5	919.5	882.3	867.7	837.0
%	14.5%	14.4%	14.1%	14.2%	14.0%	13.7%	13.8%	13.4%	13.2%	12.9%
CAST IRON -miles	5,241.8	5,234.5	5,248.7	5,254.5	5,248.8	5,244.9	5,225.8	5,234.7	5,238.1	5,211.4
%	77.1%	77.2%	77.6%	77.7%	78.1%	78.7%	78.7%	79.5%	79.9%	80.4%
Valves, Hydrants, and Services on June 30										
VALVES ON MAINS										
Number	96,966	96,334	95,734	95,141	94,248	93,661	92,962	92,092	91,235	89,839
Per mile of main	14.3	14.2	14.2	14.1	14.0	14.0	14.0	14.0	13.8	13.8
Feet of main per valve	370.3	371.8	373.1	375.2	376.6	375.8	377.2	377.62	379.4	381.0
FIRE HYDRANTS										
Number	48,570	47,988	47,495	46,850	46,128	45,566	44,993	44,268	43,484	42,411
Per mile of main	7.1	7.1	7.0	6.9	6.9	6.8	6.8	6.7	6.6	6.5
Feet of main per hydrant	739.2	746.3	752.1	761.9	769.4	772.5	779.4	785.6	795.9	807.0
ACTIVE SERVICES										
Number	617,788	615,850	616,048	617,505	620,039	617,306	618,486	608,157	607,316	603,911
Per mile of main	90.9	90.8	91.1	91.3	92.2	92.6	93.1	92.3	92.6	93.1
Average spacing (feet)	58	58	58	58	57	57	57	57	57	57
NO. OF METERS	617,644	615,982	616,173	617,592	618,963	616,821	618,655	607,683	607,050	603,608

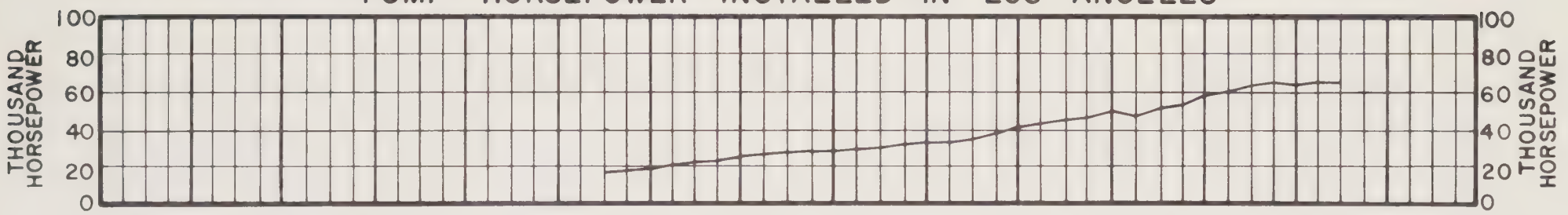
* Quantities for nominal diameters shown include minor footages of next smaller intermediate diameter pipe.

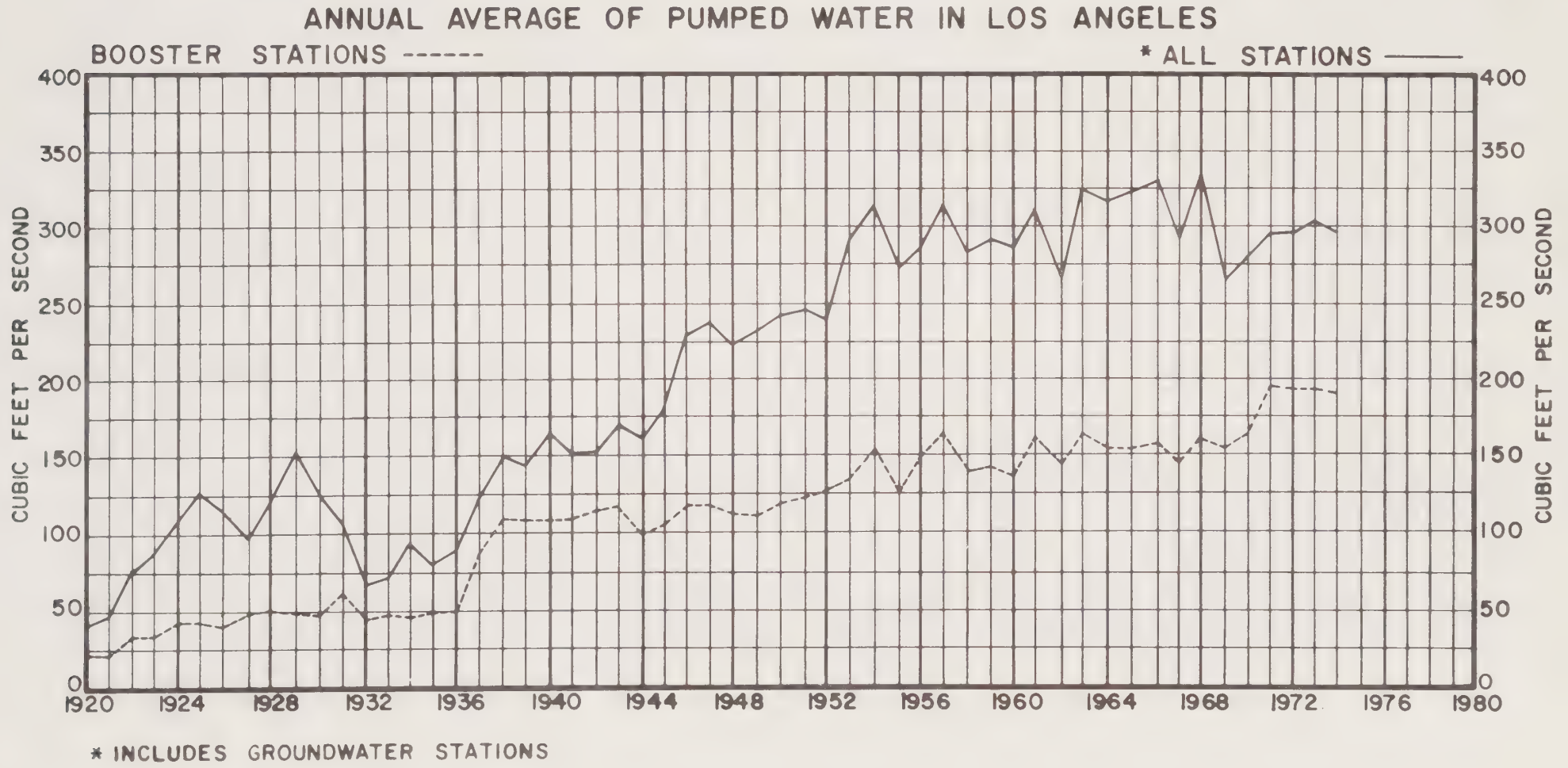
** These figures subject to adjustment.

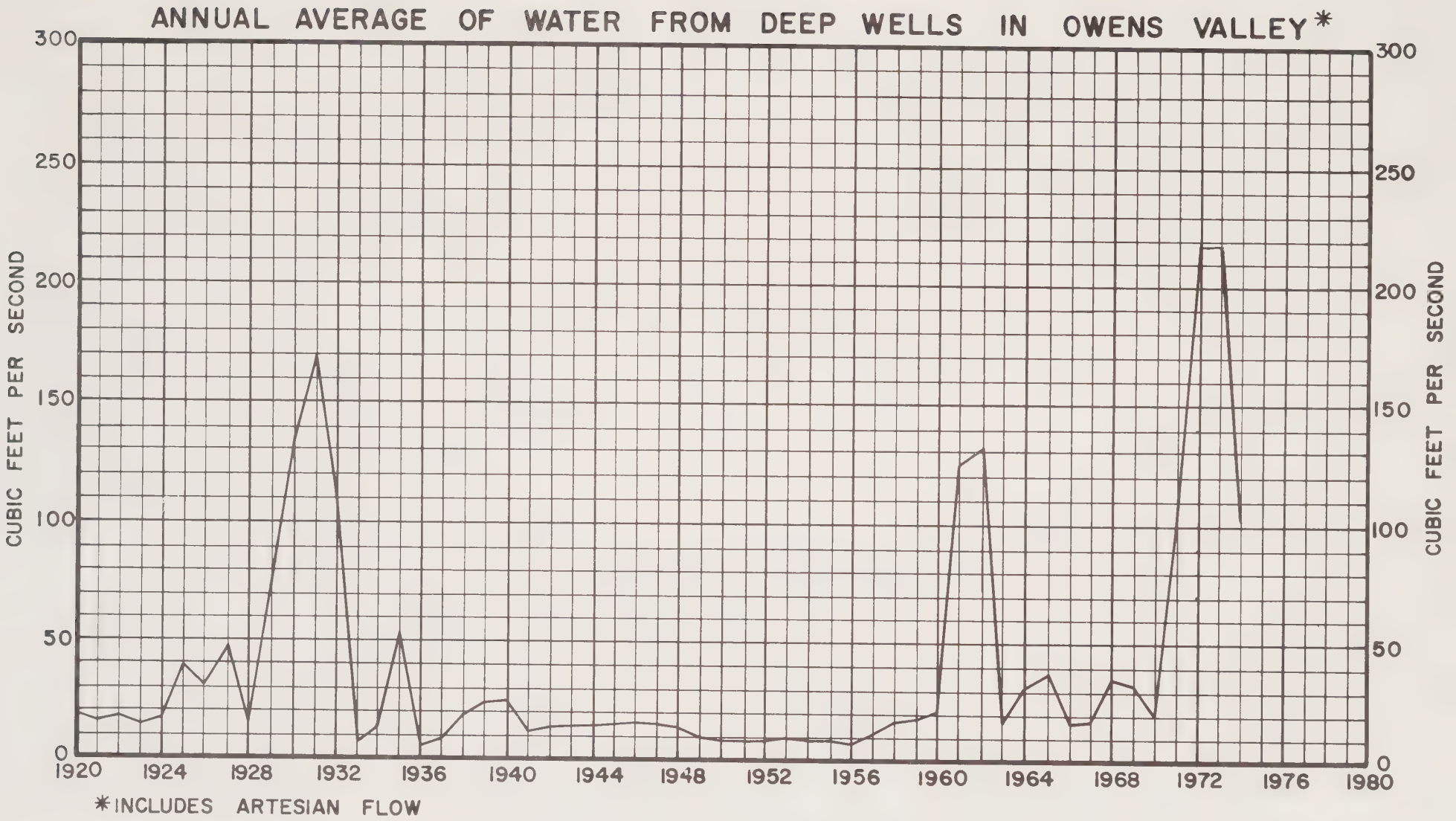

DEPTH TO GROUNDWATER IN SAN FERNANDO VALLEY WELL BASIN
FEET
0
50
100
150
200
250
300
(KEY WELL 3761A)


LOS ANGELES ANNUAL RAINFALL
INCHES
50
40
30
20
10
0


ANNUAL AVERAGE OF WATER FROM WELLS IN LOS ANGELES
GROUNDWATER STATIONS
CU. FT. PER SEC.
250
200
150
100
50
0
1920
1924
1928
1932
1936
1940
1944
1948
1952
1956
1960
1964
1968
1972
1976
1980

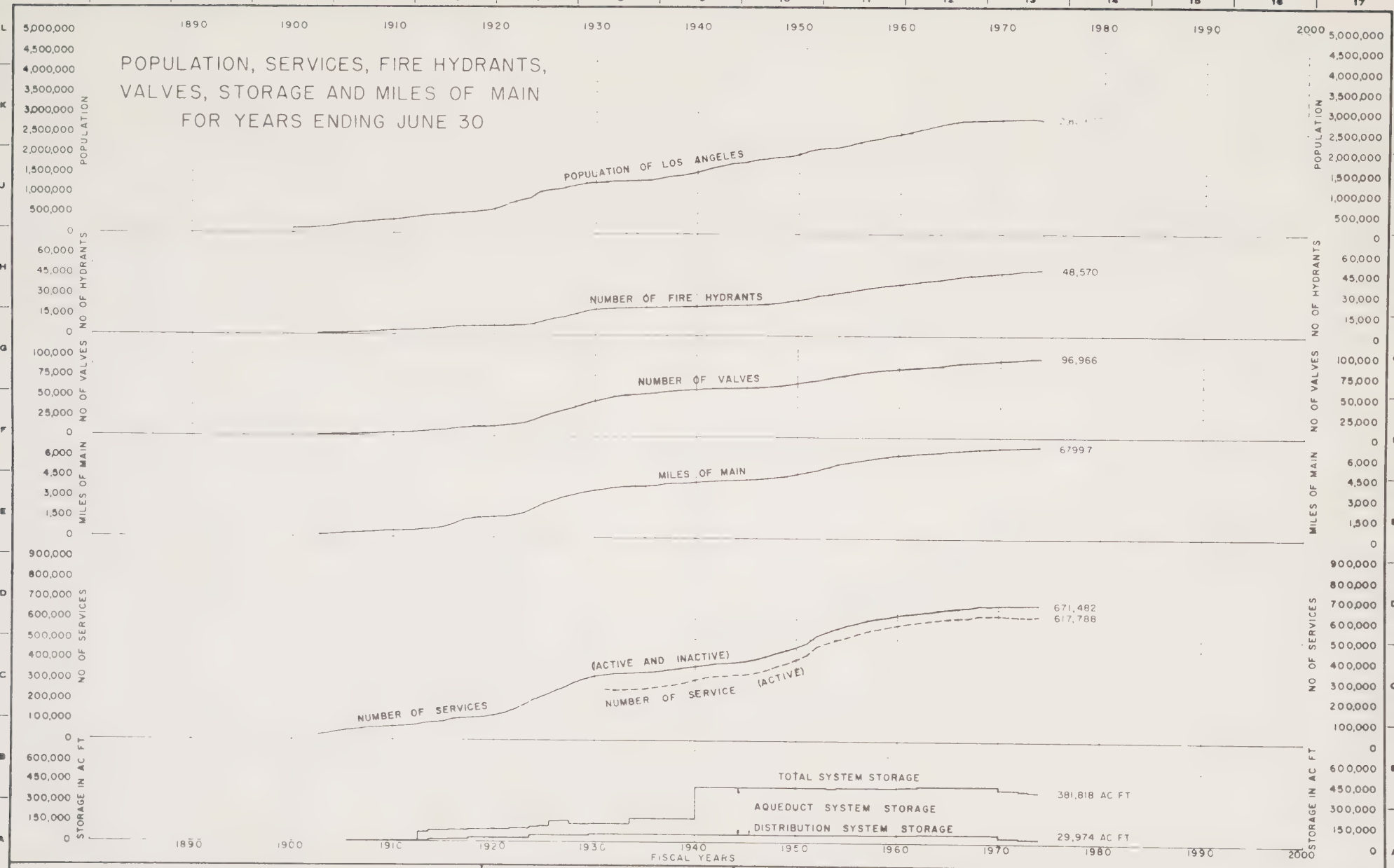

PUMP HORSEPOWER INSTALLED IN LOS ANGELES
THOUSAND HORSEPOWER
100
80
60
40
20
0


ANNUAL AVERAGE OF PUMPED WATER IN LOS ANGELES
BOOSTER STATIONS ------
* ALL STATIONS ——
CUBIC FEET PER SECOND
400
350
300
250
200
150
100
50
0
1920
1924
1928
1932
1936
1940
1944
1948
1952
1956
1960
1964
1968
1972
1976
1980
* INCLUDES GROUNDWATER STATIONS


ANNUAL AVERAGE OF WATER FROM DEEP WELLS IN OWENS VALLEY*
CUBIC FEET PER SECOND
300
250
200
150
100
50
0
1920
1924
1928
1932
1936
1940
1944
1948
1952
1956
1960
1964
1968
1972
1976
1980
*INCLUDES ARTESIAN FLOW

D 4096

POPULATION, SERVICES, FIRE HYDRANTS, VALVES, STORAGE AND MILES OF MAIN FOR YEARS ENDING JUNE 30



NOTE ALL QUANTITIES AS OF JUNE 30

REVISIONS | REFERENCES | APPROVED | DATE

DEPARTMENT OF WATER AND POWER
WATER SYSTEM
CITY OF LOS ANGELES

7.

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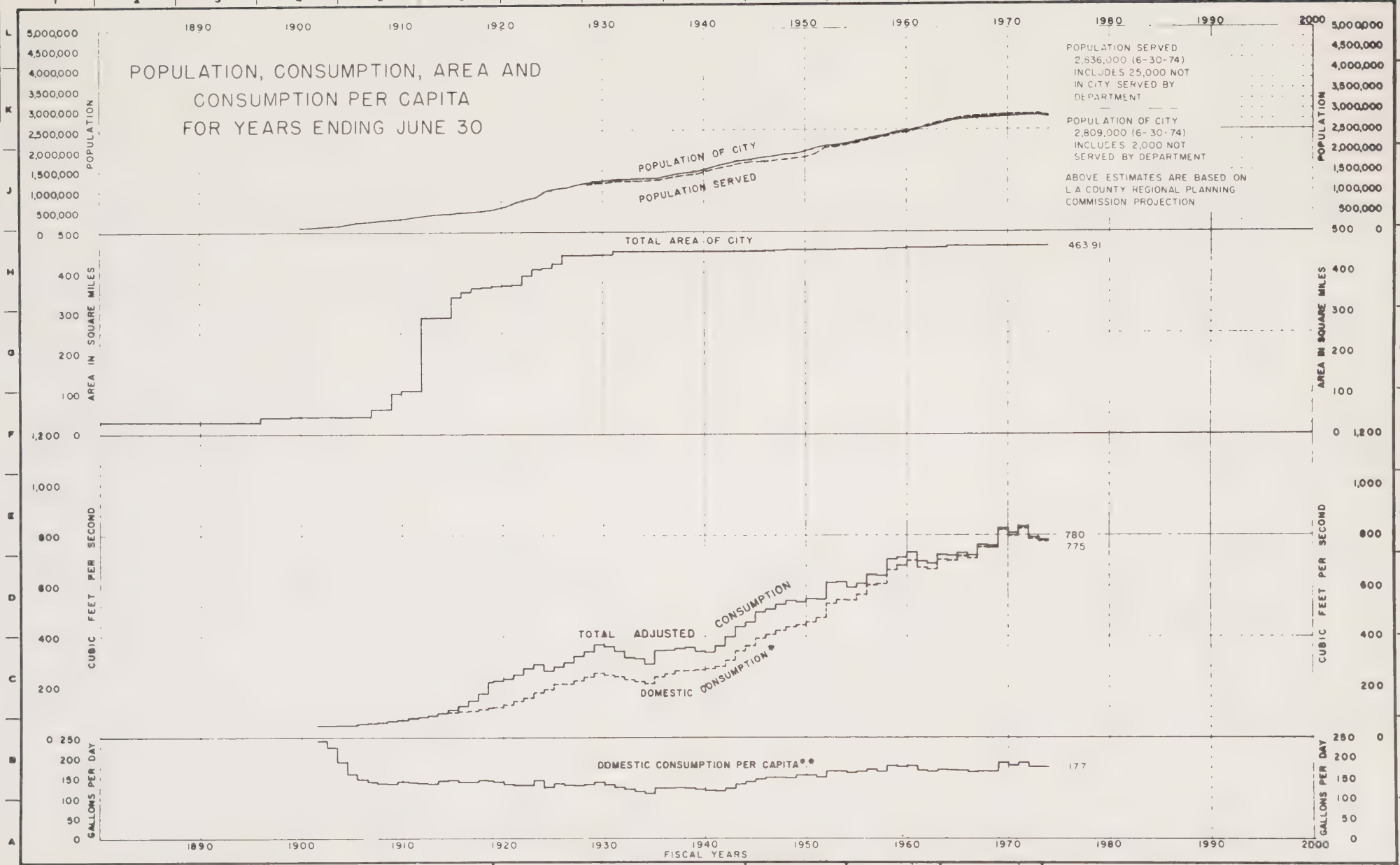
POPULATION, CONSUMPTION, AREA AND CONSUMPTION PER CAPITA FOR YEARS ENDING JUNE 30



NOTE ALL QUANTITIES AS OF JUNE 30
* INCLUDES UNMETERED USE AND UNACCOUNTED FOR WATER, EXCLUDES INTERMITTENT IRRIGATION
** BASED ON AVERAGE POPULATION FOR THE YEAR

REVISIONS | REFERENCES | APPROVED

DEPARTMENT OF WATER AND POWER
WATER SYSTEM
CITY OF LOS ANGELES

8

SUMMARY OF STORAGE FACILITIES
(RESERVOIR AND TANKS)
CITY OF LOS ANGELES - DEPARTMENT OF WATER AND POWER - WATER SYSTEM
NUMBER AND CAPACITY IN ACRE-FEET ON JUNE 30

Description	1974		1973		1972		1971		1970		1969		1968		1967		1966		1965	
	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity
AQUEDUCT AREA																				
Impounding Reservoirs	6	340,245	5	342,425	5	342,425	5	342,425	5	342,425	5	342,425	5	342,425	5	342,425	5	342,425	5	342,425
Flow Regulating Reservoirs	2	11,599	2	9,188	2	9,188	2	11,392	2	11,392	2	11,392	2	11,392	2	11,392	3	12,143	3	12,143
Subtotal	8	351,844	7	351,613	7	351,613	7	353,817	7	353,817	7	353,817	7	353,817	7	353,817	8	354,568	8	354,568
CITY AREA																				
San Fernando Valley Districts																				
Major Storage Facility	11	12,121	11	11,251	10	21,031	10	21,901	9	42,170	9	42,170	9	42,170	9	42,170	9	42,170	9	42,170
Minor Storage Facility	23	58	23	58	23	58	23	57	23	57	23	57	24	59	24	59	23	56	22	50
Subtotal	34	12,179	34	11,309	33	21,089	33	21,958	32	42,227	32	42,227	33	42,229	33	42,229	32	42,226	31	42,220
Central and Western Districts																				
Major Storage Facility	17	17,660	18	19,282	18	19,282	18	19,728	17	19,321	17	19,321	17	19,321	17	19,321	17	19,321	17	19,321
Minor Storage Facility	39	88	39	88	39	88	38	88	37	83	37	83	37	83	38	83	37	77	37	77
Subtotal	56	17,748	57	19,370	57	19,370	56	19,816	54	19,404	54	19,404	54	19,404	55	19,404	54	19,398	54	19,398
Harbor District																				
Major Storage Facility	1	26	1	26	1	26	1	26	1	26	1	26	1	26	1	26	1	26	1	26
Minor Storage Facility	6	21	6	21	6	21	6	21	6	21	6	21	5	18	5	18	5	18	5	18
Subtotal	7	47	7	47	7	47	7	47	7	47	7	47	6	44	6	44	6	44	6	44
Subtotal City Area	97	29,947	98	30,726	97	40,506	96	41,821	93	61,678	93	61,678	93	61,677	94	61,677	92	61,668	91	61,662
Summary																				
Aqueduct Reservoirs	8	351,844	7	351,613	7	351,613	7	353,817	7	353,817	7	353,817	7	353,817	7	353,817	8	354,568	8	354,568
Major City Stor. Fac.	29	29,807	30	30,559	29	40,339	29	41,655	27	61,517	27	61,517	27	61,517	27	61,517	27	61,516	27	61,517
Minor City Stor. Fac.	68	167	68	167	68	167	67	166	66	161	66	161	66	160	67	160	65	151	64	145
Total Entire System	105	381,818	105	382,339	104	392,119	103	395,638	100	415,495	100	415,495	100	415,494	101	415,494	100	416,236	99	416,230

Note: Major reservoirs over 2.5 million gallons.
Minor storage facilities (primarily tanks)
see C-1148-1-4 "Reservoir and Tank Data".

SUMMARY OF DISTRIBUTION SYSTEM PUMPING FACILITIES
CITY OF LOS ANGELES - DEPARTMENT OF WATER AND POWER - WATER SYSTEM
FOR YEARS ENDING JUNE 30, 1974

AREA AND CLASSIFICATION	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
CENTRAL AND WESTERN										
Pumping Stations	41	41	39	39	35	38	39	36	35	34
Groundwater Stations	5	5	5	5	5	7	7	6	6	7
Wells	20	20	20	20	20	23	24	20	19	20
Miscellaneous Stations	1	1	1	1	—	1	1	1	1	1
SAN FERNANDO VALLEY										
Pumping Stations	42	42	40	41	38	43	42	38	38	36
Groundwater Stations	10	10	10	10	11	10	10	10	10	10
Wells	90	90	90	89	91	86	83	82	82	84
Miscellaneous Stations	3	3	3	3	—	2	2	2	3	2
HARBOR										
Pumping Stations	8	8	8	8	5	8	8	8	8	8
Groundwater Stations	1	1	1	1	1	1	1	1	1	1
Wells	3	3	3	3	3	3	3	3	3	3
Miscellaneous Stations	0	0	0	0	—	0	0	0	0	0
SUMMARY										
Pumping Stations	91	91	87	88	78	89	89	82	81	78
Groundwater Stations	16	16	16	16	17	18	18	17	17	18
Wells	113	113	113	112	114	112	110	105	104	107
Miscellaneous Stations	4	4	4	4	—	3	3	3	4	3

— Data not accumulated.

TOTAL ANNUAL WATER SALES

City of Los Angeles - Department of Water and Power - Water System

Class of Customer	Amount for Years Ending June 30									
	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
RESIDENTIAL										
Customers	518,309	517,681	517,762	521,197	520,616	520,877	519,895	513,284	511,835	509,522
Units	114,053,909	115,104,701	125,694,413	121,251,329	122,138,767	113,695,850	115,708,571	109,857,194	113,027,912	113,639,439
Revenue	$43,245,806	$43,219,286	$43,754,296	$43,605,427	$38,190,593	$33,712,050	$33,991,031	$32,250,537	$28,130,290	$27,663,251
COMMERCIAL AND INDUSTRIAL										
Customers	90,781	90,955	91,546	91,401	90,756	90,202	89,611	88,758	87,638	85,860
Units	95,445,222	95,300,708	94,675,610	92,810,346	93,046,882	89,287,495	86,544,833	81,850,437	78,880,543	75,944,507
Revenue	$28,949,901	$28,460,718	$25,416,246	$25,597,301	$22,411,109	$19,961,460	$19,177,023	$18,178,199	$14,934,176	$14,149,709
GOVERNMENTAL										
Customers	5,148	5,049	4,976	4,801	4,651	4,533	4,403	4,264	4,160	3,951
Units	18,158,752	18,850,172	20,596,571	19,252,117	18,951,832	17,959,268	17,986,885	17,017,341	16,844,170	16,606,452
Revenue	$ 4,364,146	$ 4,473,602	$ 4,063,868	$ 4,063,897	$ 3,486,792	$ 2,967,378	$ 2,943,474	$ 2,720,388	$ 2,320,947	$ 2,203,223
INTERMITTENT IRRIGATION AND COMBINED IRRIGATION AND RESIDENTIAL										
Customers	296	310	327	325	377	396	432	443	484	609
Units	2,052,908	2,240,447	2,739,781	2,614,160	3,077,933	2,874,692	3,771,144	3,521,665	4,586,339	5,299,329
Revenue	$ 280,684	$ 288,226	$ 242,455	$ 249,389	$ 278,228	$ 237,165	$ 283,368	$ 270,739	$ 286,300	$ 327,150
ALL CLASSES COMBINED										
Customers	614,534	613,995	614,611	617,724	616,400	616,008	614,341	606,749	604,117	599,942
Units	229,710,791	231,496,028	243,706,375	235,927,952	237,215,414	223,817,305	224,011,433	212,246,637	213,338,964	211,489,727
Revenue	$76,840,537	$76,441,832	$73,476,865	$73,516,014	$64,366,722	$56,878,053	$56,394,896	$53,419,863	$45,671,713	$44,343,333

NOTE: "Unit" is the billing unit of 100 cubic feet.

AVERAGE MONTHLY WATER SALES PER CUSTOMER

City of Los Angeles - Department of Water and Power - Water System

Class of Customer	Average Amount per Month for Years Ending June 30									
	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
RESIDENTIAL										
Units per customer	18.3	18.5	20.2	19.4	19.6	18.2	18.6	17.8	18.4	18.6
Revenue per customer	$ 6.95	$ 6.96	$ 7.04	$ 6.97	$ 6.11	$ 5.39	$ 5.45	$ 5.24	$ 4.58	$ 4.52
Average rate per unit	$ .3792	$ .3755	$ .3481	$ .3596	$ .3127	$ .2965	$ .2938	$ .2936	$ .2489	$ .2434
COMMERCIAL AND INDUSTRIAL										
Units per customer	87.6	87.3	86.2	84.6	85.4	82.5	80.5	76.8	75.0	73.7
Revenue per customer	$ 26.57	$ 26.08	$ 23.14	$ 23.34	$ 20.58	$ 18.44	$ 17.83	$ 17.07	$ 14.20	$ 13.73
Average rate per unit	$ .3033	$ .2986	$ .2685	$ .2758	$ .2409	$ .2236	$ .2216	$ .2221	$ .1893	$ .1863
GOVERNMENTAL										
Units per customer	293.9	311.1	344.9	334.2	339.5	330.2	340.4	332.6	337.4	350.6
Revenue per customer	$ 70.64	$ 73.84	$ 68.06	$ 70.54	$ 62.47	$ 54.55	$ 55.71	$ 53.16	$ 46.49	$ 46.52
Average rate per unit	$ .2403	$ .2373	$ .1973	$ .2110	$ .1840	$ .1652	$ .1636	$ .1599	$ .1378	$ .1327
INTERMITTENT IRRIGATION AND COMBINED IRRIGATION AND RESIDENTIAL										
Units per customer	578.0	602.3	698.2	670.3	680.1	604.8	926.6	661.7	789.8	725.1
Revenue per customer	$ 79.02	$ 77.48	$ 61.79	$ 63.95	$ 61.47	$ 49.90	$ 54.60	$ 50.87	$ 49.30	$ 44.77
Average rate per unit	$ .1367	$ .1286	$ .0885	$ .0954	$ .0904	$ .0825	$ .0751	$ .0769	$ .0624	$ .0617
ALL CLASSES COMBINED										
Units per customer	31.1	31.4	33.0	31.8	32.1	30.3	30.4	29.2	29.4	29.4
Revenue per customer	$ 10.42	$ 10.37	$ 9.96	$ 9.92	$ 8.70	$ 7.69	$ 7.65	$ 7.34	$ 6.30	$ 6.16
Average rate per unit	$ .3345	$ .3302	$ .3015	$ .3116	$ .2713	$ .2541	$ .2518	$ .2517	$ .2141	$ .2097

NOTE: "Unit" is the billing unit of 100 cubic feet.

DEPARTMENT OF WATER AND POWER - CITY OF LOS ANGELES

WATER SYSTEM

COMPARATIVE STATISTICS FOR TEN YEARS ENDING JUNE 30, 1974

	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
Operating revenues	$ 79,892,135	$ 79,394,671	$ 76,048,512	$ 76,025,598	$ 66,787,442	$ 59,281,601	$ 58,731,769	$ 55,739,058	$ 47,971,036	$ 46,755,970
Operating expenses (less depreciation)	$ 47,738,285	$ 45,524,123	$ 44,554,389	$ 39,449,320	$ 43,095,948	$ 40,475,052	$ 37,437,399	$ 33,825,632	$ 30,287,905	$ 27,977,241
Percent of operating revenues	59.8	57.3	58.6	51.9	64.5	68.3	63.7	60.7	63.1	59.8
Depreciation	$ 12,986,941	$ 12,407,268	$ 11,903,628	$ 12,815,275	$ 11,764,001	$ 11,267,427	$ 10,820,291	$ 10,285,180	$ 9,915,677	$ 9,352,016
Percent of operating revenues	16.3	15.6	15.7	16.9	17.6	19.0	18.4	18.5	20.7	20.0
Long-term debt expense	$ 11,280,291	$ 10,947,994	$ 10,247,642	$ 9,728,046	$ 8,594,800	$ 6,717,440	$ 5,529,301	$ 4,840,986	$ 4,688,838	$ 4,168,142
Percent of operating revenues	14.1	13.8	13.5	12.8	12.9	11.3	9.4	8.7	9.8	8.9
Other income and expenses	$ 2,698,902	$ 3,074,683	$ 1,863,682	$ 2,189,634	$ 4,427,913	$ 3,336,234	$ 2,300,936	$ 1,793,796	$ 1,395,788	$ 1,135,048
Net income	$ 10,585,520	$ 13,589,969	$ 11,206,535	$ 16,222,591	$ 8,510,606*	$ 4,157,916	$ 7,245,714	$ 11,609,251**	$ 4,474,404	$ 6,393,619
Payments to reserve fund of the City	$ 3,970,000	$ 3,802,000	$ 3,801,000	$ 3,339,000	$ 2,874,000	$ 2,777,000	$ 2,399,000	$ 2,338,000	$ 2,351,688	$ 1,966,000
Percent of net income	37.5	28.0	33.9	20.6	33.8	66.8	33.1	20.1	52.6	30.7
Taxes (included in operating expenses)	$ 3,069,717	$ 2,840,196	$ 2,664,044	$ 2,423,348	$ 1,972,279	$ 1,859,603	$ 1,688,684	$ 1,696,843	$ 1,298,572	$ 1,320,500
Percent of operating revenue	3.8	3.6	3.5	3.2	3.0	3.1	2.9	3.0	2.7	2.8
Maintenance (included in operating expenses)	$ 13,078,142	$ 12,496,410	$ 11,674,589	$ 10,857,514	$ 11,044,617	$ 11,411,656	$ 10,670,773	$ 8,987,754	$ 7,429,080	$ 7,162,667
Percent of operating revenues	16.4	15.7	15.4	14.3	16.5	19.2	18.2	16.1	15.5	15.3
Plant in service, excluding land	$710,231,159	$686,748,760	$655,278,109	$630,852,766	$600,404,303	$515,526,192	$495,080,687	$463,150,290	$446,842,582	$431,032,032
Accumulative provision for depreciation	$237,515,951	$224,855,049	$212,651,756	$201,488,606	$189,279,691	$178,898,923	$168,551,448	$158,006,845	$149,041,135	$140,628,391
Percent of plant in service	32.2	32.7	32.5	31.9	31.5	34.7	34.0	34.1	33.4	32.6
Net plant in service	$472,715,208	$461,893,711	$442,626,353	$429,364,160	$411,124,612	$336,627,269	$326,529,239	$305,143,445	$297,801,447	$290,403,641
Land	$ 46,654,807	$ 46,624,611	$ 45,998,339	$ 45,643,626	$ 45,112,951	$ 45,749,215	$ 45,617,500	$ 43,269,468	$ 42,735,425	$ 41,995,983
Construction work in progress	$ 27,676,823	$ 25,028,229	$ 29,063,407	$ 20,349,341	$ 24,166,682	$ 61,770,710	$ 31,841,774	$ 33,255,727	$ 14,188,733	$ 6,384,552
Net utility plant	$547,046,838	$533,546,551	$517,688,099	$495,357,127	$480,404,245	$444,147,194	$403,988,513	$381,668,640	$354,725,605	$338,784,176
Long-term debt	$257,565,000	$252,875,000	$248,275,000	$243,740,000	$236,480,000	$203,820,000	$191,503,000	$163,006,000	$155,184,000	$147,072,000
Percent of net utility plant	47.1	47.4	48.0	49.2	49.2	45.9	47.4	42.7	43.7	43.4
Contributions in aid of construction	$125,576,800	$118,895,631	$114,357,714	$108,786,183	$104,913,380	$101,285,199	$ 96,455,089	$ 92,441,447	$ 89,606,177	$ 84,266,740
Retained income	$187,386,000	$180,770,480	$170,982,511	$163,576,976	$150,693,385	$145,056,779	$143,675,863	$138,829,149	$129,557,898	$127,435,182

* Includes $750,000 proceeds from Baldwin Hills reservoir lawsuits
** Includes $3,028,195 extraordinary gain on sale of land

POWER SYSTEM

GENERATING PLANTS - NUMBER AND NAMEPLATE CAPACITY

City of Los Angeles - Department of Water and Power - Power System

	For Years Ending June 30									
	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
HYDROELECTRIC										
Number of Units										
Aqueduct	12	12	12	11	11	11	11	11	11	11
Castaic	2	1	1	-	-	-	-	-	-	-
Hoover	6	6	6	6	6	6	6	6	6	6
Owens Gorge	3	3	3	3	3	3	3	3	3	3
Owens Valley System	7	7	7	7	7	7	7	7	7	7
Total	30	29	29	27	27	27	27	27	27	27
Capacity (kw)										
Aqueduct	118,725	118,725	118,725	107,725	107,725	107,725	107,725	107,725	107,725	107,725
Castaic	268,500	56,000	56,000	-	-	-	-	-	-	-
Hoover	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000	495,000
Owens Gorge	112,500	112,500	112,500	112,500	112,500	112,500	112,500	112,500	112,500	112,500
Owens Valley System	14,100	14,100	14,100	14,100	14,100	14,100	14,100	14,100	14,100	14,100
Total	1,008,825	796,325	796,325	729,325	729,325	729,325	729,325	729,325	729,325	729,325
THERMAL										
Number of Units										
Seal Beach (1)	-	-	-	-	-	-	-	-	2	2
Harbor	9	9	5	5	5	5	5	5	5	5
Valley	4	4	4	4	4	4	4	4	4	4
Scattergood	2	2	2	2	2	2	2	2	2	2
Haynes	6	6	6	6	6	6	6	6	4	4
Total	21	21	17	17	17	17	17	17	17	17
Capacity (kw)										
Seal Beach (1)	-	-	-	-	-	-	-	-	65,000	65,000
Harbor	483,220	483,220	396,900	396,900	355,000	355,000	355,000	355,000	355,000	355,000
Valley	545,600	545,600	545,600	545,600	512,500	512,500	512,500	512,500	512,500	512,500
Scattergood	326,400	326,400	326,400	326,400	312,500	312,500	312,500	312,500	312,500	312,500
Haynes	1,606,000	1,606,000	1,606,000	1,606,000	1,606,000	1,606,000	1,606,000	1,606,000	920,000	920,000
Total	2,961,220	2,961,220	2,874,900	2,874,900	2,786,000	2,786,000	2,786,000	2,786,000	2,165,000	2,165,000
TOTAL										
Number of Units	51	50	46	44	44	44	44	44	44	44
Capacity (kw)	3,970,045	3,757,545	3,671,225	3,604,225	3,515,325	3,515,325	3,515,325	3,515,325	2,894,325	2,894,325
JOINT FACILITIES										
Number of Units										
Mohave (2)	2	2	2	1	-	-	-	-	-	-
Navajo (3)	1	-	-	-	-	-	-	-	-	-
Capacity (kw)										
Mohave (2)	1,636,000	1,636,000	1,636,000	818,000	-	-	-	-	-	-
Navajo (3)	750,000	-	-	-	-	-	-	-	-	-

(1) Retired from service July 21, 1966.
(2) Department's ownership is 20%. Operating agent is the Southern California Edison Company.
(3) Department's ownership is 21.2%. Operating agent is the Salt River Project.

Power Operating and Maintenance Division
Operating Engeineering Section

GENERATING PLANTS AND POWER SOURCES - NET DEPENDABLE CAPABILITY

City of Los Angeles - Department of Water and Power - Power System

	For Years Ending June 30									
	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
					(Megawatts)					
HYDROELECTRIC PLANTS										
Aqueduct Power Plants	73	71	66	57(1)	63	50	50	50	50	100
Hoover Power Plant	553	521	507	501	435	400	400	400	400	445
Owens River Gorge Plants	110	110	110	110	110	110	110	110	110	110
Owens Valley System	9	9	9	9	9	9	9	9	9	9
Castaic	228	24	24	-	-	-	-	-	-	-
Total	973	735	716	677	617	569	569	569	569	664
THERMAL GENERATING PLANTS										
Seal Beach	-	-	-	-	-	-	-	-	-	75
Harbor	525	525	445	445	445	445	445	445	445	426
Valley	527	517	517	524	524	524	524	524	524	510
Scattergood	358	358	179	354	354	354	354	354	354	340
Haynes	1,547	1,593	1,591	1,625	1,625	1,594	1,594	1,594	908	880
Total	2,957	2,993	2,732	2,948	2,948	2,917	2,917	2,917	2,231	2,231
TOTAL GENERATING PLANTS										
Capability	3,930	3,728	3,448	3,625	3,565	3,486	3,486	3,486	2,800	2,895
JOINT FACILITIES										
Mohave	316	304	292	152	-	-	-	-	-	-
Navajo	159	-	-	-	-	-	-	-	-	-
FIRM PURCHASES										
Pacific Northwest Contracts	525	525	260(3)	0(2)	324	400	17	-	-	-
Pacific Gas & Electric Co.	-	-	-	-	-	-	180	-	-	-
Southern California Edison	-	-	150	-	150	-				
FIRM SALES										
Nevada Power Company	(-)75	(-)100	-	-	-	-	-	-	-	-
FIRM TRANSFER										
State's Capacity Entitlement	(-)49	(-)24	(-)24	-	-	-	-	-	-	-
TOTAL POWER SYSTEM										
Capability	4,806	4,433	4,126	3,777	4,039	3,886	3,683	3,486	2,800	2,895

(1) 6 mw temporarily out of service due to February 9, 1971 earthquake.
(2) 525 mw temporarily out of service due to February 9, 1971 earthquake.
(3) 265 mw temporarily out of service due to February 9, 1971 earthquake.

Power Operating and Maintenance Division
Operating Engineering Section

TRANSMISSION AND SUBTRANSMISSION LINES

City of Los Angeles - Department of Water and Power - Power System

	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
TRANSMISSION LINES (above 34.5 kv) - CIRCUIT MILES										
Overhead										
800 kv DC	580.52	580.52	580.52	580.52	580.52	-	-	-	-	-
500 kv	245.43	237.51	237.51	237.51	-	-	-	-	-	-
287.5 kv	532.32	532.32	532.32	532.32	532.32	790.92	790.92	790.92	790.92	790.92
230 kv	554.62	554.62	551.72	527.72	764.63	483.86	449.39	443.89	338.66	338.66
220 kv - SCE Area	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99
138 kv	93.94	93.94	93.94	93.94	93.94	131.81	147.41	162.87	218.23	217.81
115 kv - Los Angeles	44.34	44.34	44.34	44.34	44.34	44.34	45.24	45.24	45.24	46.94
115 kv - Owens Valley Area	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Total	2,057.66	2,049.74	2,046.84	2,022.84	2,022.24	1,457.42	1,439.45	1,439.41	1,401.24	1,400.82
Underground										
230 kv	27.05	27.05	27.05	27.05	25.96	15.22	12.06	12.06	2.18	2.18
138 kv	65.40	65.40	65.40	65.40	65.40	74.24	74.24	74.24	84.12	78.31
Total	92.45	92.45	92.45	92.45	91.36	89.46	86.30	86.30	86.30	80.49
Total Transmission Lines (above 34.5 kv)	2,150.11	2,142.19	2,139.29	2,115.29	2,113.60	1,546.88	1,525.75	1,525.71	1,487.54	1,481.31
SUBTRANSMISSION LINES - CIRCUIT MILES										
Overhead										
34.5 kv - Los Angeles Area	1,154.84	1,154.71	1,154.77	1,144.19	1,114.90	1,090.68	1,081.81	1,084.83	1,060.74	1,045.86
34.5 kv - Owens Valley Area	207.99	207.99	205.34	204.05	186.56	189.12	190.60	190.25	190.49	184.47
34.5 kv - Owens Valley Area (Customer Owned)	0.81	0.81	0.80	0.80	17.65	17.65	17.65	17.65	17.65	17.65
16.5 kv - Los Angeles Area	2.25	2.25	2.25	1.01	1.01	1.01	1.01	1.01	2.01	2.01
13.8 kv - Los Angeles Area	4.24	4.24	4.24	4.24	4.24	4.74	4.74	4.74	4.74	4.74
12.0 kv - Owens Valley Area	12.16	-	-	-	-	-	-	-	-	-
Total	1,382.29	1,370.00	1,367.40	1,354.29	1,324.36	1,303.20	1,295.81	1,298.48	1,275.63	1,254.73
Underground										
34 5 kv - Los Angeles Area	604.50	572.10	529.00	478.80	439.80	380.20	353.20	325.40	301.34	281.39
Total Subtransmission Lines	1,986.79	1,942.09	1,896.40	1,833.09	1,764.16	1,683.40	1,649.01	1,623.88	1,576.97	1,536.12

Power Operating and Maintenance Division
Operating Engineering Section

CONVERTER, SWITCHING, RECEIVING, DISTRIBUTING AND CUSTOMER STATIONS

City of Los Angeles - Department of Water and Power - Power System

		For Years Ending June 30									
		1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
CONVERTER STATIONS											
Number - 800 kv d-c to 230 kv a-c		1	1	1	1	-	-	-	-	-	-
SWITCHING STATIONS											
Number											
500/287.5 kv - Attended		1	-	-	-	-	-	-	-	-	-
500/230 kv - Unattended		1	1	1	1	-	-	-	-	-	-
287.5 kv - Attended		-	1	1	1	2	2	2	2	2	2
230 kv - Unattended		1	1	1	1	1	1	1	1	1	1
230/220 kv - Unattended		1	1	1	1	1	1	-	-	-	-
230/138 kv - Attended		-	-	-	-	-	1	1	-	-	-
230/138/115 kv - Unattended		-	-	-	1	1	1	1	1	1	1
230/115 kv - Unattended		1	1	1	-	-	-	-	-	-	-
138 kv - Unattended		1	1	1	1	1	1	2	2	2	1
Total		6	6	6	6	6	7	7	6	6	5
RECEIVING STATIONS											
Number		19	19	19	18	18	17	17	17	17	16
Total Transformer Capacity - kva		6,944,000	6,944,000	6,882,000	6,427,000	6,107,000	5,382,000	4,478,000	4,542,000	3,962,000	3,838,000
DISTRIBUTING STATIONS											
Number											
138 kv - Unattended		-	-	-	1	1	1	1	1	1	1
34.5 kv - Attended		5	10	12	13	13	14	15	18	21	22
34.5 kv - Unattended		153	141	141	138	136	132	125	119	110	104
7.2 kv - Unattended		-	-	-	-	1	1	1	1	1	1
Total		158	151	153	152	151	148	142	139	133	128
Capacity - kva											
138 kv - Unattended		-	-	-	75,000	75,000	75,000	75,000	75,000	75,000	75,000
34.5 kv - Attended		200,000	420,000	460,000	490,000	490,000	507,500	547,500	647,500	727,500	757,500
34.5 kv - Unattended		3,692,796	3,369,296	3,138,296	2,910,300	2,765,236	2,556,486	2,305,986	2,132,108	1,981,348	1,782,412
7.2 kv - Unattended		-	-	-	-	150	150	150	150	150	150
Total		3,892,796	3,789,296	3,598,296	3,475,300	3,330,386	3,139,136	2,928,636	2,854,758	2,783,998	2,615,062
CUSTOMER STATIONS											
Number of Stations											
DWP Owned	34.5 kv	1,718	1,662	1,590	1,517	1,443	1,353	1,264	1,190	1,100	1,045
Transformer, Customer Owned	34.5 kv	1	1	1	1	1	1	1	1	-	1
Customer Owned	34.5 kv	6	7	6	7	7	7	7	6	6	5
DWP Owned	16.5 kv	8	8	8	8	8	8	8	8	8	8
Transformer, Customer Owned	13.8 kv	1	1	1	1	1	1	1	1	1	1
Customer Owned	13.8 kv	2	2	2	2	2	2	2	2	2	2
DWP Owned	4.8 kv & Below	586	577	576	556	552	557	562	564	557	576
Total		2,322	2,258	2,184	2,092	2,014	1,929	1,845	1,772	1,674	1,638
Capacity - kva											
DWP Owned	34.5 kv	2,706,376	2,572,227	2,408,493	2,243,765	2,032,551	1,878,592	1,709,818	1,526,575	1,395,406	1,301,811
Transformer, Customer Owned	34.5 kv	40,150	40,150	40,150	40,150	40,150	40,150	40,510	20,150	-	2,000
Customer Owned	34.5 kv	26,875	27,625	20,125	18,250	20,675	20,675	20,675	19,675	19,975	19,225
DWP Owned	16.5 kv	4,095	4,095	4,095	4,095	4,095	4,095	4,095	4,095	4,095	4,095
Transformer, Customer Owned	13.8 kv	38,025	38,025	38,025	38,025	38,025	38,025	38,025	38,025	37,025	37,025
Customer Owned	13.8 kv	142,666	142,666	142,666	140,666	113,666	113,666	111,666	111,666	96,491	96,491
DWP Owned	4.8 kv & Below	350,510	349,788	359,389	349,786	354,000	352,011	353,153	355,843	353,370	348,291
Total		3,308,697	3,174,576	3,012,943	2,834,737	2,603,162	2,447,214	2,277,942	2,076,029	1,906,362	1,808,938

Power Operating and Maintenance Division
Operating Engineering Section

LOW-VOLTAGE DISTRIBUTION SYSTEM STATISTICS

City of Los Angeles - Department of Water and Power - Power System

	For Years Ending June 30									
	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
LOW-VOLTAGE LINES										
Number of Primary Feeders (4.8 kv and below)										
Overhead										
Los Angeles Area (1)	1,057	1,028	1,005	984	956	913	867	839	793	754
Owens Valley Area	23	23	22	22	20	20	19	19	19	19
Total	1,080	1,051	1,027	1,006	977	933	886	858	812	773
Underground										
Los Angeles Area	271	264	264	258	251	244	233	233	228	210
Total Primary Feeders	1,351	1,315	1,291	1,264	1,227	1,177	1,119	1,091	1,040	983
Length of Primary (4.8-kv and below) and Secondary (480, 240 and 120 v) Lines - Circuit Miles										
Overhead										
Los Angeles Area - Primary	5,769.00	5,760.00	5,741.00	5,721.00	5,710.00	5,659.00	5,608.00	5,607.00	5,586.00	5,533.00
Los Angeles Area - Secondary	3,913.00	3,917.00	3,914.00	3,909.00	3,909.00	3,903.00	3,901.00	3,905.00	3,910.00	3,877.00
Owens Valley Area - Primary and Secondary	192.67	189.90	185.67	183.25	177.69	176.07	170.32	161.66	154.89	150.50
Total	9,874.67	9,866.90	9,840.67	9,813.25	9,796.69	9,738.07	9,679.32	9,673.66	9,650.89	9,570.50
Underground										
Los Angeles Area - Primary	1,667.40	1,609.20	1,544.70	1,469.60	1,341.50	1,192.00	1,150.30	1,052.60	967.32	898.91
Los Angeles Area - Secondary	660.80	652.70	637.00	617.80	600.10	566.30	562.10	533.50	477.33	434.98
Total	2,328.20	2,261.90	2,181.70	2,087.40	1,941.30	1,758.30	1,712.40	1,586.10	1,444.65	1,333.89
Total Low-Voltage Lines - Circuit Miles	12,202.87	12,128.80	12,022.37	11,900.65	11,738.29	11,496.37	11,391.72	11,259.76	11,095.54	10,904.39
Overhead Distribution - Pole Line Miles	6,194	6,212	6,238	6,254	6,370	6,372	6,380	6,408	6,422	6,407
Underground Distribution - Conduit Miles	1,697	1,653	1,603	1,544	1,502	1,447	1,410	1,355	1,253	1,154
LOW-VOLTAGE TRANSFORMERS (4.8 kv and below)										
Number										
Overhead System	91,206	90,244	88,835	87,265	85,928	84,835	83,414	82,169	80,919	79,208
Underground System	10,118	9,647	9,106	8,576	8,008	7,392	6,898	6,486	6,103	5,630
Total	101,324	99,891	97,941	95,841	93,936	92,227	90,312	88,655	87,022	84,838
Capacity - Kva										
Overhead System	3,062,083	2,987,637	2,890,389	2,810,576	2,726,601	2,631,072	2,529,668	2,439,963	2,360,400	2,255,783
Underground System	1,122,566	1,051,947	979,027	907,115	834,512	745,939	688,788	688,997	590,212	532,732
Total	4,184,649	4,039,584	3,869,416	3,717,691	3,561,113	3,377,011	3,218,456	3,078,960	2,950,612	2,788,515
SERVICE METERS										
Number										
Los Angeles Area	1,168,358	1,160,553	1,152,995	1,147,532	1,139,720	1,133,038	1,129,807	1,128,938	1,123,589	1,106,708
Owens Valley Area	3,805	3,796	3,728	3,665	3,576	3,454	3,462	3,417	3,343	3,325
Total	1,172,163	1,164,349	1,156,723	1,151,197	1,143,296	1,136,492	1,133,269	1,132,355	1,126,932	1,110,033
STREET LIGHTING UNITS										
Number										
Utilitarian	28,049	28,887	29,728	31,662	33,408	34,013	33,320	33,120	33,063	32,905
Electrolier	168,123	163,615	153,589	143,837	134,283	127,425	124,110	121,670	116,561	112,762
Total	196,172	192,502	183,317	175,499	167,691	161,438	157,430	154,790	149,624	145,667

(1) Includes six 13.8-kv feeders.

Power Operating and Maintenance Division
Operating Engineering Section

POWER PRODUCTION, SOURCES AND DISPOSITION

City of Los Angeles - Department of Water and Power - Power System

	For Years Ending June 30									
	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
PRODUCTION FOR DWP CUSTOMERS (NET ENERGY FOR LOAD)										
Demand - kw (hourly indicated)	3,561,000	3,679,000	3,439,000	3,107,000	2,974,000	2,772,000	2,679,000	2,407,000	2,303,000	2,123,000
Energy - kwh	17,477,021,702	19,066,427,067	18,453,075,147	17,302,967,130	16,596,942,083	15,602,166,377	14,672,577,217	13,473,285,003	12,586,633,342	11,522,276,543
SOURCES - KWH										
Energy Generated at Hoover PP										
Net for City of Los Angeles at Transmission Voltage	638,874,435	574,153,482	605,720,808	600,285,968	623,509,447	616,073,974	605,905,655	615,009,001	573,811,480	554,953,678
For Boulder City, U.S.B.R., Plant Use and Other Allottees	403,562,565	371,734,518	374,135,192	417,545,032	412,307,553	436,348,026	338,130,345	340,374,999	314,404,520	288,731,322
Total Gross Generation of Los Angeles Units at Hoover PP	1,042,437,000	945,888,000	979,856,000	1,017,831,000	1,035,817,000	1,052,422,000	944,036,000	955,384,000	888,216,000	843,685,000
Gross Generation of Castaic Power Plant	152,204,000	105,200,000	38,680,000							
Gross Generation of Aqueduct Hydro Plants	541,249,000	526,796,000	491,249,000	485,189,000	416,785,000	428,582,000	435,612,000	416,316,000	416,126,000	405,582,000
Gross Generation of Owens Valley Hydro Plants	634,594,000	442,345,000	602,796,500	642,342,400	552,501,900	613,722,700	504,083,300	525,183,100	486,605,200	515,662,200
Total Hydro Generation	1,328,047,000	1,074,341,000	1,132,725,500	1,127,531,400	969,286,900	1,042,304,700	939,695,300	1,896,883,100	1,790,947,200	1,764,929,200
Gross Generation at Thermal Plants	13,588,378,000	16,633,831,000	14,605,946,000	13,212,137,000	13,404,973,000	13,355,783,000	13,579,187,000	12,470,509,000	11,630,355,000	10,522,059,000
Total Gross Generation	15,958,862,000	18,704,060,000	16,718,527,500	15,457,499,400	15,410,076,900	15,450,509,700	15,462,918,300	14,367,392,100	13,421,302,200	12,286,988,200
Purchased Energy - Total, as billed	2,841,514,376	1,600,579,730	2,727,033,059	2,643,366,457	2,330,346,613	1,245,564,740	107,757,483	6,854,839	5,655,972	7,007,677
Less Energy Purchased from Municipalities and Nevada Power Co. Included in Output of Hoover PP	0	0	0	22,600,000	0	0	0	0	0	0
Total Generated and Purchased	18,800,376,376	20,304,639,730	19,445,560,559	18,078,265,857	17,740,423,513	16,696,074,440	15,570,675,783	14,374,246,939	13,426,958,172	12,293,995,877
Interchange Energy Received	5,549,988,171	3,006,260,073	1,553,326,118	1,714,831,557	666,490,145	223,465,719	68,582,387	38,230,735	33,625,801	36,742,398
System Total	24,350,364,547	23,310,899,803	20,998,886,677	19,793,097,414	18,406,913,658	16,919,540,159	15,639,258,170	14,412,477,674	13,460,583,973	12,330,738,275
DISPOSITION - KWH										
Total Sales to Ultimate Customers	15,986,955,905	17,513,891,021	16,852,170,823	15,934,874,334	15,284,340,266	14,453,715,136	13,476,983,587	12,374,741,825	11,487,022,582	10,635,552,819
Distribution Losses and Selected Misc. System Uses	647,396,968	827,003,618	987,297,628	915,301,501	871,568,479	752,421,559	792,815,777	712,830,244	769,037,090	603,672,035
Total Distribution	16,634,352,873	18,340,894,639	17,839,468,451	16,850,175,835	16,155,908,745	15,206,135,694	14,269,799,364	13,087,572,069	12,256,059,672	11,239,224,854
Sales to Other Utilities						36,184,780	11,032,619			
Delivered to Interconnected Municipalities (1)	0	80,000	30,000	26,810,000	54,380,000	299,473,000	189,156,000	148,830,000	145,960,000	152,390,000
Delivered to Customers of Other Utilities	2,469,111	4,908,063	2,577,433	2,791,595	1,871,257	1,592,277	1,630,502	1,520,640	1,511,964	1,461,678
Total R.S. Output	16,636,821,984	18,345,882,702	17,842,075,884	16,879,777,430	16,212,160,002	15,543,386,751	14,471,618,485	13,237,922,709	12,403,531,636	11,393,076,532
Station Service to All Power Plants	530,964,334	638,251,098	578,038,221	553,558,323	540,183,480	563,778,914	563,356,080	576,398,452	543,143,034	500,094,584
Energy Delivered to Others Directly from Hoover PP and Motoring	240,473,600	205,620,800	204,829,600	225,005,800	238,359,500	264,584,900	163,065,700	166,518,700	139,166,600	110,406,900
Energy Delivered to Other Utilities at Transmission Voltages	6,071,201,679	3,368,667,903	1,731,240,022	1,683,834,151	937,504,776	166,639,499	27,015,315	26,032,383	23,779,293	22,682,572
Transmission Losses	870,902,950	752,477,300	642,712,950	470,921,710	478,705,900	381,150,095	414,202,590	405,605,430	350,963,410	304,477,687
System Total	24,350,364,547	23,310,899,803	20,998,886,677	19,793,097,414	18,406,913,658	16,919,540,159	15,639,258,170	14,412,477,674	13,460,583,973	12,330,738,275

(1) Reflects Pasadena only from 1970 to 1973. Burbank and Glendale deliveries are considered to be at transmission voltage.

Power Operating and Maintenance Division
Operating Engineering Section

SALES OF ELECTRIC ENERGY

City of Los Angeles - Department of Water and Power - Power System

1974 Figures are Preliminary
Subject to Audit

	For Year Ending June 30									
	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
LOS ANGELES CITY AREA										
RESIDENTIAL										
Customers	954,543	946,864	938,151	939,729	932,433	923,526	914,068	902,178	885,616	865,975
Kilowatt-Hours	4,295,469,114	4,695,630,658	4,615,563,417	4,367,779,613	4,113,671,470	3,865,844,907	3,632,593,922	3,347,650,218	3,083,101,768	2,869,982,923
Revenue	$129,515,635	$116,817,716	$ 97,978,471	$ 86,102,467	$ 77,721,795	$ 73,440,986	$ 70,232,298	$ 66,273,734	$ 62,084,859	$ 60,125,563
COMMERCIAL AND INDUSTRIAL										
Commercial (Incl. Governmental)										
Customers	142,048	144,285*	148,460	148,288	147,840	147,641	147,972	147,342	147,451	146,844
Kilowatt-Hours	7,887,134,048	9,015,882,262	8,557,124,568	8,039,997,179	7,611,900,942	7,183,751,267	6,751,912,234	6,203,035,709	5,692,992,292	5,238,351,669
Revenue	$174,233,133	$155,407,395	$124,810,649	$104,085,323	$ 92,418,660	$ 86,880,123	$ 83,285,270	$ 78,568,370	$ 73,404,186	$ 70,642,051
Industrial										
Customers	14,061	11,650	11,276	11,086	10,799	10,469	10,028	9,715	9,434	9,260
Kilowatt-Hours	3,348,849,719	3,350,207,607	3,283,024,634	3,142,066,154	3,197,371,597	3,053,274,878	2,711,186,680	2,465,353,152	2,350,591,708	2,169,197,726
Revenue	$ 58,873,235	$ 42,835,867	$ 34,336,978	$ 28,257,882	$ 27,009,675	$ 25,198,962	$ 23,063,838	$ 21,456,013	$ 20,210,103	$ 19,436,033
Total Commercial & Industrial										
Customers	156,109	155,935	159,736	159,374	158,639	158,110	158,000	157,057	156,885	156,104
Kilowatt-Hours	11,235,983,767	12,366,089,869	11,840,149,202	11,182,063,333	10,809,272,539	10,237,026,145	9,463,098,914	8,668,388,861	8,043,584,000	7,407,549,395
Revenue	$233,106,368	$198,243,262	$159,147,627	$132,343,205	$119,428,335	$112,079,085	$106,349,108	$100,024,383	$ 93,614,289	$ 90,078,084
PUBLIC STREET & HIGHWAY LIGHTING										
Kilowatt-Hours	313,410,643	307,601,355	253,809,697	237,091,615	222,624,230	212,020,962	211,718,117	204,238,031	195,098,891	193,594,936
Revenue	$ 11,785,057	$ 9,641,039	$ 7,246,819	$ 6,301,534	$ 5,644,482	$ 5,369,701	$ 5,666,378	$ 5,523,892	$ 5,345,320	$ 5,256,915
SALES TO WATER SYSTEM										
Kilowatt-Hours	86,164,287	85,548,156	83,071,970	92,460,035	85,568,866	88,104,464	108,332,700	91,127,470	104,842,192	105,789,389
Revenue	$ 1,608,130	$ 1,210,536	$ 988,256	$ 917,429	$ 815,805	$ 819,962	$ 933,492	$ 822,059	$ 882,659	$ 945,878
TOTAL SALES TO ULTIMATE CUSTOMERS										
Customers	1,115,918	1,108,038	1,099,034	1,100,135	1,092,092	1,082,609	1,072,985	1,060,118	1,043,520	1,024,788
Kilowatt-Hours	15,931,027,811	17,454,870,038	16,792,594,286	15,879,394,596	15,231,137,105	14,402,996,478	13,415,743,653	12,311,404,580	11,426,626,851	10,576,916,643
Revenue	$376,015,190	$325,912,553	$265,361,173	$225,664,635	$203,610,417	$191,709,734	$183,181,276	$172,644,068	$161,927,127	$156,406,440
INYO-MONO AREA										
TOTAL SALES										
Customers	3,659	3,639	3,581	3,489	3,417	3,383	3,348	3,429	3,386	3,310
Kilowatt-Hours	55,928,094	59,020,983	59,576,537	55,479,738	53,203,161	50,718,658	61,239,934	63,337,245	60,395,731	58,636,176
Revenue	$ 1,573,049	$ 1,414,033	$ 1,180,026	$ 998,012	$ 923,324	$ 883,863	$ 938,332	$ 926,158	$ 875,212	$ 851,910
ENTIRE POWER SYSTEM										
TOTAL SALES TO ULTIMATE CUSTOMERS										
Customers	1,119,577	1,111,677	1,102,615	1,103,624	1,095,509	1,085,992	1,076,333	1,063,547	1,046,906	1,028,098
Kilowatt-Hours	15,986,955,905	17,513,891,021	16,852,170,823	15,934,874,334	15,284,340,266	14,453,715,136	13,476,983,587	12,374,741,825	11,487,022,582	10,635,552,819
Revenue	$377,588,239	$327,326,586	$266,541,199	$226,662,647	$204,533,741	$192,593,597	$184,119,608	$173,570,226	$162,802,339	$157,258,350
TOTAL SALES (Incl. Sales to Other Elec. Util.)										
Kilowatt-Hours	16,372,501,560	17,700,536,525	16,975,855,428	15,972,164,576	15,317,103,196	14,504,242,193	13,489,646,708	12,377,232,465	11,488,534,546	10,637,014,497
Revenue	$379,031,731	$328,046,596	$266,979,365	$226,850,109	$204,725,274	$192,789,197	$184,194,468	$173,632,921	$162,819,938	$157,275,994

* In July 1972 approximately 4,000 Traffic Control Customers were changed from the Commercial class to Public Street and Highway Lighting.

Financial Planning Section
Power System Exec. Office
DFN:ec

ENERGY USE AND REVENUE PER CUSTOMER - & - AVERAGE RATE PER KILOWATT-HOUR
(Per Customer Figures Based on Average Active Accounts)

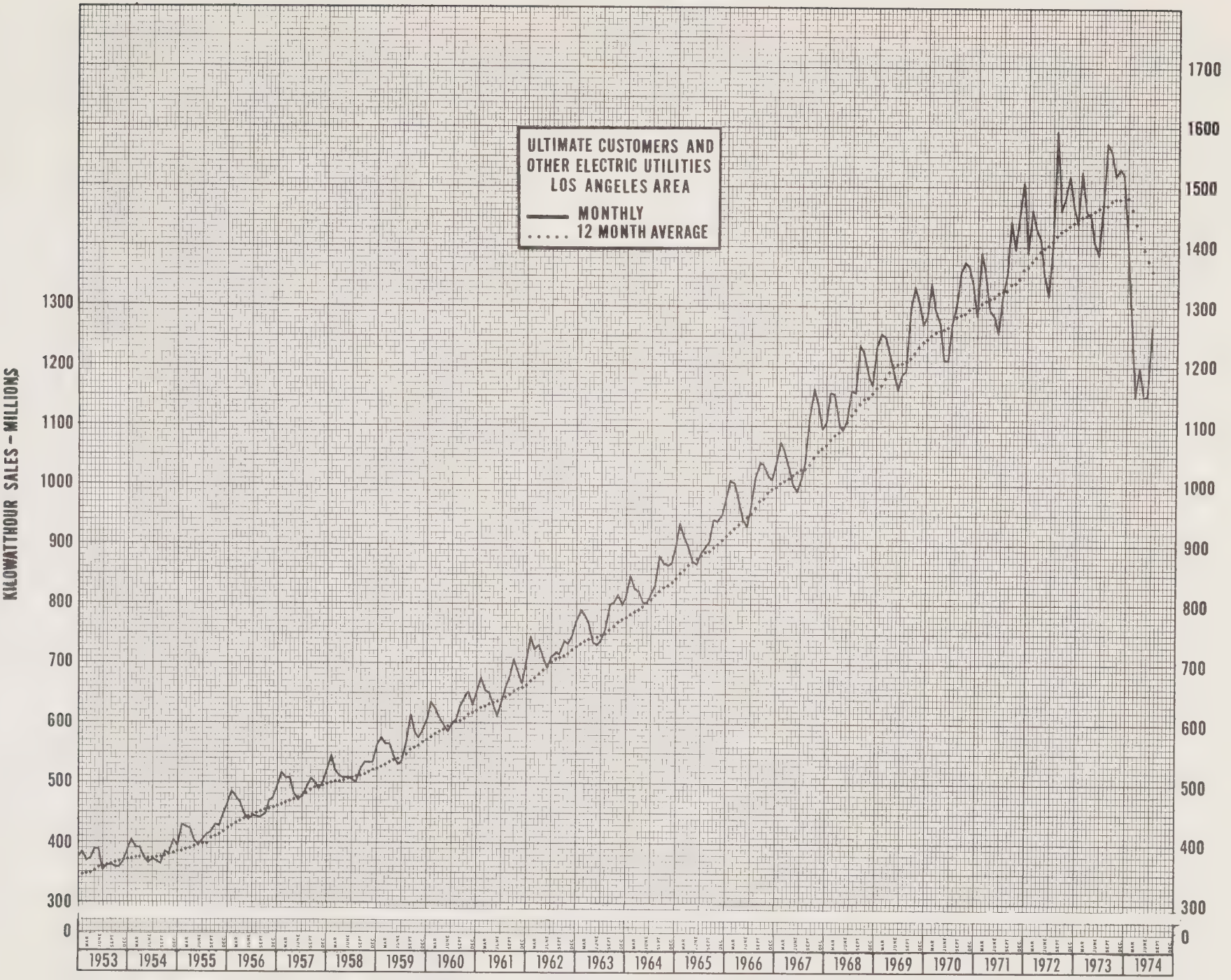
City of Los Angeles - Department of Water and Power - Power System

1974 Figures are Preliminary
Subject to Audit

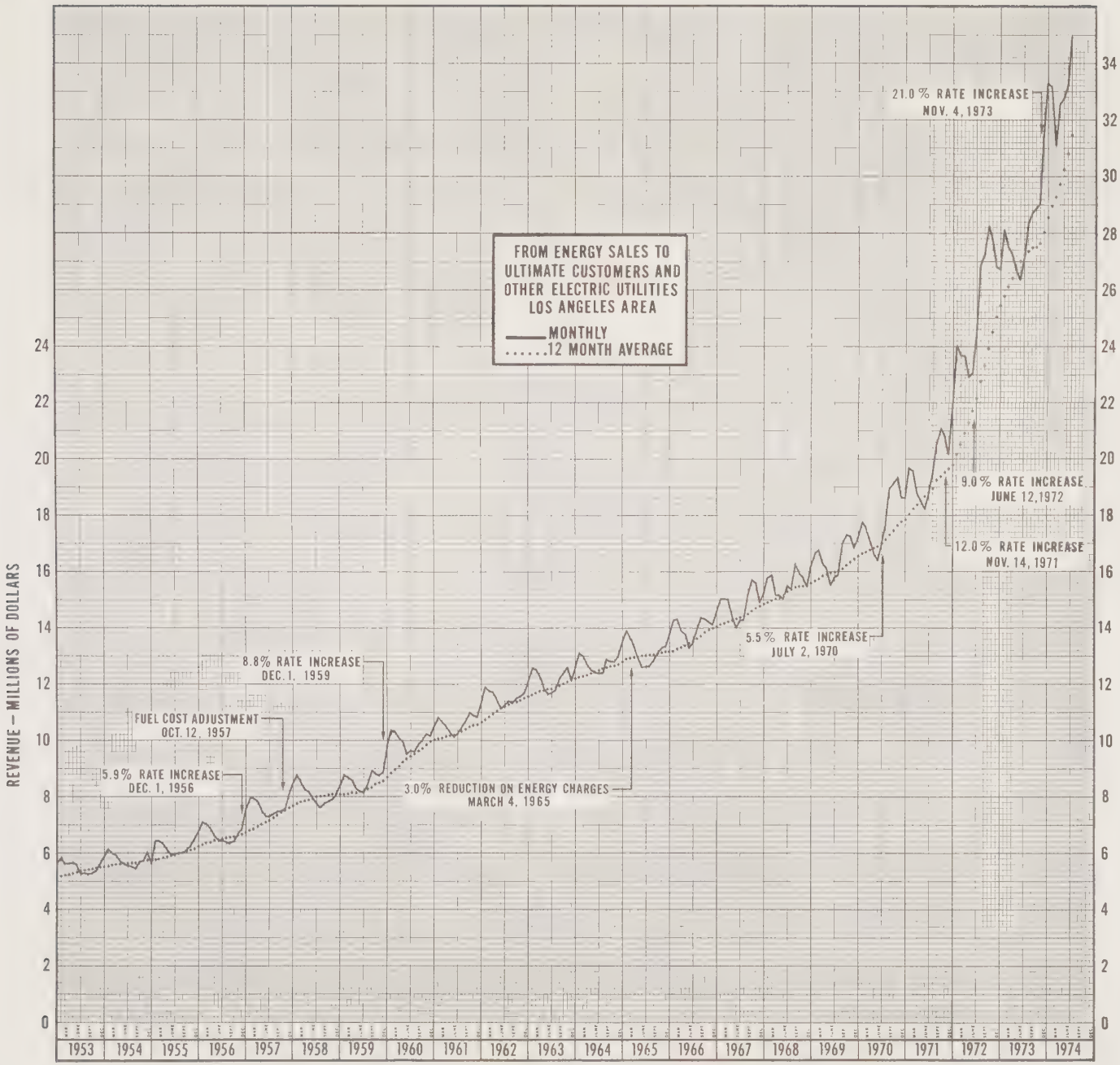
	Average Monthly Amount - For Year Ending June 30									
	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
LOS ANGELES CITY AREA										
RESIDENTIAL										
Kwh per Customer	375.0	413.3	410.0	387.3	367.7	348.8	331.2	309.2	290.1	276.2
Revenue per Customer	$ 11.31	$ 10.28	$ 8.70	$ 7.64	$ 6.95	$ 6.63	$ 6.40	$ 6.12	$ 5.84	$ 5.79
Average Rate per Kwh	3.02¢	2.49¢	2.12¢	1.97¢	1.89¢	1.90¢	1.93¢	1.98¢	2.01¢	2.09¢
COMMERCIAL AND INDUSTRIAL										
Commercial (Incl. Governmental)										
Kwh per Customer	4,627.0	5,207.2	4,803.3	4,518.3	4,290.6	4,054.8	3,802.5	3,508.3	3,217.5	2,972.7
Revenue per Customer	$102.22	$ 89.76	$ 70.06	$ 58.49	$ 52.09	$ 49.04	$ 46.90	$ 44.44	$ 41.49	$ 40.09
Average Rate per Kwh	2.21¢	1.72¢	1.46¢	1.30¢	1.21¢	1.21¢	1.23¢	1.27¢	1.29¢	1.35¢
Industrial										
Kwh per Customer	19,847.2	23,964.3	24,261.7	23,616.8	24,673.4	24,304.1	22,530.2	21,147.3	20,763.5	19,521.2
Revenue per Customer	$348.92	$306.41	$253.75	$212.40	$208.43	$200.58	$191.66	$184.05	$178.52	$174.91
Average Rate per Kwh	1.76¢	1.28¢	1.05¢	0.90¢	0.85¢	0.83¢	0.85¢	0.87¢	0.86¢	0.90¢
Total Commercial and Industrial										
Kwh per Customer	5,997.9	6,608.6	6,176.9	5,846.8	5,678.1	5,395.5	4,991.1	4,599.4	4,272.6	3,954.4
Revenue per Customer	$124.44	$105.94	$ 83.03	$ 69.20	$ 62.74	$ 59.07	$ 56.09	$ 53.07	$ 49.73	$ 48.09
Average Rate per Kwh	2.08¢	1.60¢	1.34¢	1.18¢	1.11¢	1.10¢	1.12¢	1.15¢	1.16¢	1.22¢
TOTAL SALES TO ULTIMATE CUSTOMERS										
Kwh per Customer	1,189.7	1,312.7	1,273.3	1,202.8	1,162.2	1,108.7	1,041.9	967.8	912.5	860.1
Revenue per Customer	$ 28.08	$ 24.51	$ 20.12	$ 17.09	$ 15.54	$ 14.76	$ 14.23	$ 13.57	$ 12.93	$ 12.72
Average Rate per Kwh	2.36¢	1.87¢	1.58¢	1.42¢	1.34¢	1.33¢	1.37¢	1.40¢	1.42¢	1.48¢

Financial Planning Section
Power System Exec. Office
DFN:ec

ENERGY SALES



REVENUE


FROM ENERGY SALES TO ULTIMATE CUSTOMERS AND OTHER ELECTRIC UTILITIES LOS ANGELES AREA
MONTHLY
12 MONTH AVERAGE
REVENUE – MILLIONS OF DOLLARS
21.0% RATE INCREASE NOV. 4, 1973
9.0% RATE INCREASE JUNE 12, 1972
12.0% RATE INCREASE NOV. 14, 1971
5.5% RATE INCREASE JULY 2, 1970
8.8% RATE INCREASE DEC. 1, 1959
FUEL COST ADJUSTMENT OCT. 12, 1957
5.9% RATE INCREASE DEC. 1, 1956
3.0% REDUCTION ON ENERGY CHARGES MARCH 4, 1965
0
2
4
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14
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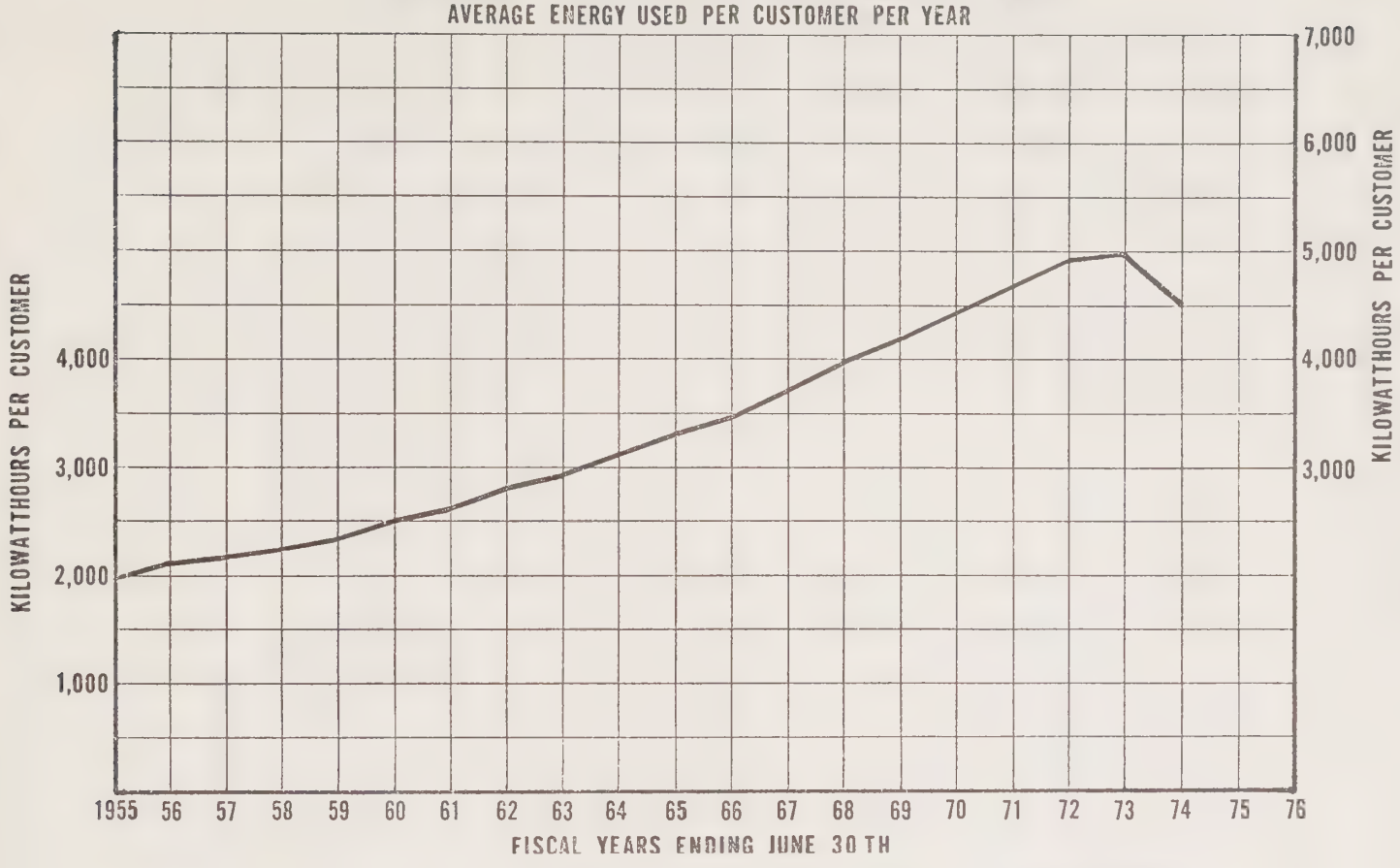
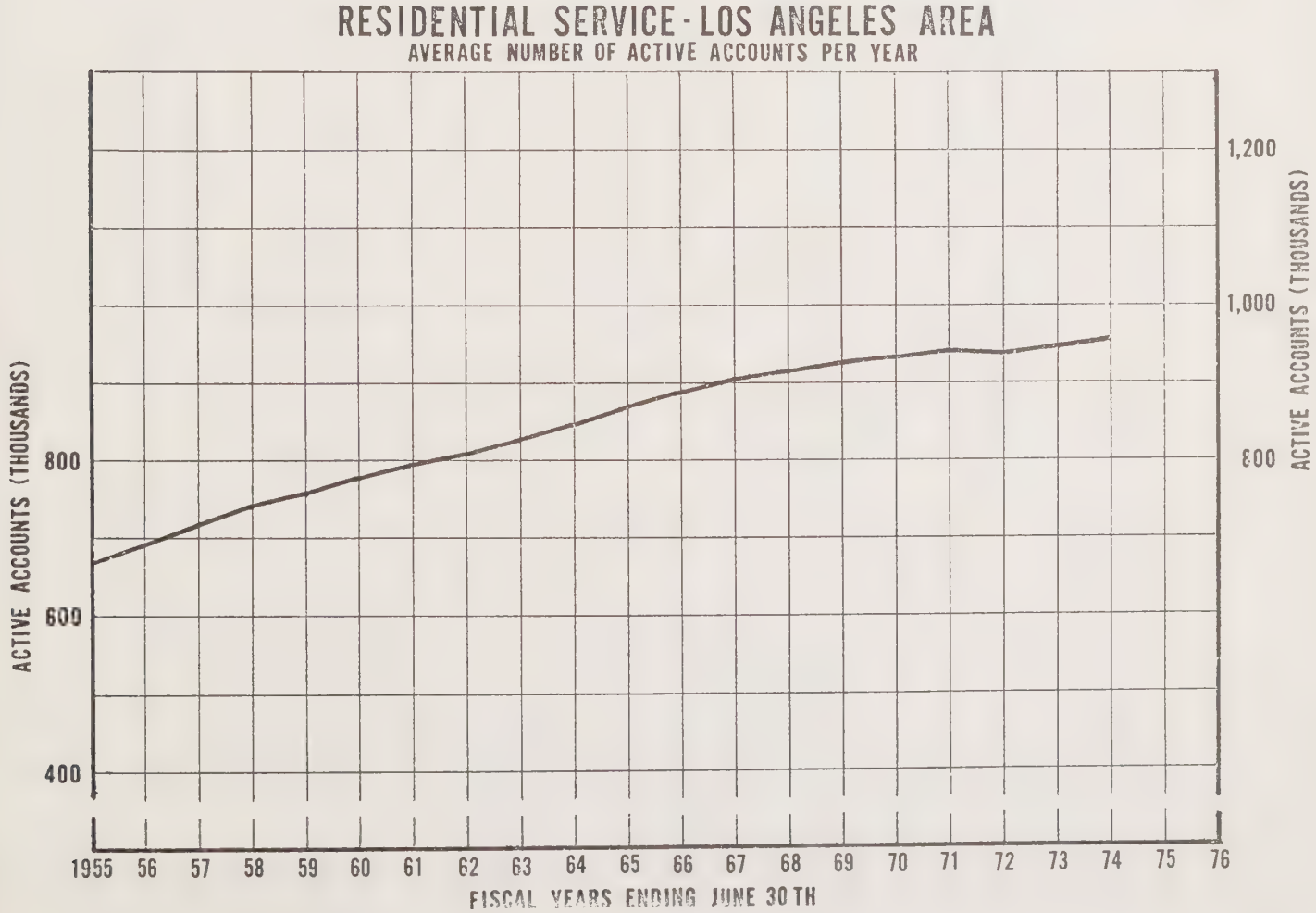

RESIDENTIAL SERVICE - LOS ANGELES AREA
AVERAGE ENERGY USED PER CUSTOMER PER YEAR
KILOWATTHOURS PER CUSTOMER
7,000
6,000
5,000
4,000
3,000
2,000
1,000
1955 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76
FISCAL YEARS ENDING JUNE 30 TH


RESIDENTIAL SERVICE - LOS ANGELES AREA
AVERAGE NUMBER OF ACTIVE ACCOUNTS PER YEAR
ACTIVE ACCOUNTS (THOUSANDS)
1,200
1,000
800
600
400
1955 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76
FISCAL YEARS ENDING JUNE 30 TH

DEPARTMENT OF WATER AND POWER - CITY OF LOS ANGELES

POWER SYSTEM

COMPARATIVE STATISTICS FOR THE TEN YEARS ENDING JUNE 30, 1974

	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
Operating revenues	$ 380,577,796	$ 329,441,228	$ 268,300,706	$ 228,123,932	$ 205,775,854	$ 193,817,306	$ 185,121,001	$ 174,480,377	$ 163,689,038	$159,368,362
Operating expenses (less depreciation)	$ 216,603,663*	$ 206,352,066	$ 174,806,010	$ 142,098,478	$ 124,628,297	$ 116,044,933	$ 107,380,868	$ 102,825,137	$ 96,578,541	$ 91,306,206
Percent of operating revenue	56.9	62.6	65.2	62.3	60.6	59.9	58.0	58.9	59.0	57.3
Depreciation	$ 41,192,969	$ 38,476,990	$ 36,237,842	$ 34,164,235	$ 31,749,823	$ 29,936,780	$ 29,094,721	$ 27,056,145	$ 25,437,193	$ 23,238,024
Percent of operating revenues	10.8	11.7	13.5	15.0	15.4	15.4	15.7	15.5	15.5	14.6
Long-term debt expense	$ 51,695,092	$ 43,385,530	$ 36,771,610	$ 30,358,831	$ 23,804,473	$ 18,449,100	$ 16,125,820	$ 14,634,226	$ 13,102,045	$ 12,184,218
Percent of operating revenues	13.6	13.2	13.7	13.3	11.6	9.5	8.7	8.4	8.0	7.6
Other income and expenses	$ 23,278,684	$ 15,862,693	$ 10,169,923	$ 8,846,415	$ 7,492,103	$ 3,883,726	$ 2,229,591	$ 2,429,050	$ 2,002,135	$ 2,041,652
Net income	$ 94,364,756	$ 57,089,335	$ 30,655,167	$ 30,348,803	$ 33,085,364	$ 33,270,219	$ 34,749,183	$ 32,393,919	$ 30,573,394	$ 34,681,566
Payments to Reserve Fund of the City	$ 16,472,000	$ 13,415,000	$ 11,406,000	$ 10,350,000	$ 9,256,000	$ 8,724,000	$ 8,184,000	$ 7,968,000	$ 7,578,000	$ 7,186,000
Percent of net income	17.5	23.5	37.2	34.1	28.0	26.2	23.6	24.6	24.8	20.7
Taxes (included in operating expenses)	$ 2,771,048	$ 2,654,022	$ 2,397,205	$ 1,860,030	$ 1,265,064	$ 1,250,658	$ 1,157,869	$ 1,232,648	$ 1,392,405	$ 1,225,331
Percent of operating revenue	.7	.8	.9	.8	.6	.6	.6	.7	.9	.8
Maintenance (included in operating expenses)	$ 28,135,160	$ 26,971,939	$ 24,534,617	$ 23,016,008	$ 19,745,650	$ 17,789,663	$ 17,213,628	$ 16,293,613	$ 14,859,579	$ 14,637,324
Percent of operating revenue	7.4	8.2	9.1	10.1	9.6	9.2	9.3	9.3	9.1	9.2
Plant in service, excluding land	$1,698,489,555	$1,544,433,885	$1,498,389,603	$1,425,015,819	$1,343,235,275	$1,222,401,433	$1,160,248,724	$1,121,410,641	$1,015,225,165	$976,063,282
Accumulated provision for depreciation	$ 406,228,073	$ 376,349,979	$ 351,335,623	$ 328,196,649	$ 309,320,312	$ 287,413,958	$ 265,895,850	$ 247,152,449	$ 236,136,419	$218,154,690
Percent of plant in service	23.9	24.4	23.4	23.0	23.0	23.5	22.9	22.0	23.3	22.4
Net plant in service	$1,292,261,482	$1,168,083,906	$1,147,053,980	$1,096,819,170	$1,033,914,963	$ 934,987,475	$ 894,352,874	$ 874,258,192	$ 779,088,746	$757,908,592
Land	$ 48,167,220	$ 47,015,878	$ 44,878,026	$ 41,588,872	$ 40,113,287	$ 38,517,966	$ 39,987,620	$ 38,564,155	$ 36,556,034	$ 35,661,242
Construction work in progress	$ 399,089,643	$ 377,036,310	$ 237,572,430	$ 160,815,215	$ 122,728,110	$ 108,644,125	$ 54,246,417	$ 19,307,870	$ 71,129,713	$ 28,172,923
Net utility plant	$1,739,518,345	$1,592,136,094	$1,429,504,436	$1,299,223,257	$1,196,756,360	$1,082,149,566	$ 988,586,911	$ 932,130,217	$ 886,774,493	$821,742,757
Long-term debt	$1,212,474,000	$1,017,315,000	$ 900,080,000	$ 760,811,000	$ 673,482,000	$ 589,503,000	$ 520,419,000	$ 479,188,000	$ 454,934,832	$425,827,292
Percent of net utility plant	69.7	63.9	63.0	58.6	56.3	54.5	52.6	51.4	51.3	51.8
Contributions in aid of construction	$ 27,978,505	$ 25,767,257	$ 24,233,181	$ 22,600,836	$ 22,126,719	$ 21,738,727	$ 19,823,227	$ 19,117,297	$ 17,906,202	$ 16,800,604
Retained income	$ 708,071,190	$ 630,178,434	$ 586,504,099	$ 567,254,932	$ 547,256,129	$ 523,426,765	$ 498,880,546	$ 472,315,363	$ 447,889,444	$424,894,050

*Includes cumulative effect of deferral of incremental fuel costs
(Note A to Financial Statements)

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